

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/IB2005/000027

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B41F9/06 B41F31/20 B41F9/10 B41F31/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B41F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 428 291 A (DOROW ET AL) 31 January 1984 (1984-01-31) column 5, lines 53-55; figure 1	1
Y	US 4 604 951 A (ICHIKAWA ET AL) 12 August 1986 (1986-08-12) column 4; figures 3,4	1
Y	EP 0 182 325 A (ALBERT-FRANKENTHAL AG) 28 May 1986 (1986-05-28) abstract; figure 1	1
Y	FR 1 259 111 A (GUALTIERO GIORI) 21 April 1961 (1961-04-21) the whole document	1
	-/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

18 April 2005

Date of mailing of the international search report

28/04/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Duquénoy, A

International Application No
PCT/IB2005/000027

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2005/000027

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4428291	A	31-01-1984	DE 3117341 A1	18-11-1982
			DE 3261597 D1	31-01-1985
			EP 0064270 A1	10-11-1982
			JP 1657662 C	21-04-1992
			JP 3026127 B	09-04-1991
			JP 57187254 A	17-11-1982
US 4604951	A	12-08-1986	JP 4027944 B	13-05-1992
			JP 61061856 A	29-03-1986
			AT 36272 T	15-08-1988
			CA 1234507 A1	29-03-1988
			DE 3564218 D1	15-09-1988
			EP 0176702 A1	09-04-1986
			IN 161730 A1	23-01-1988
			KR 8903851 B1	05-10-1989
			LT 2633 R3	25-04-1994
			LV 5665 A3	20-10-1994
			SU 1452472 A3	15-01-1989
EP 0182325	A	28-05-1986	DE 3442661 A1	05-06-1986
			EP 0182325 A2	28-05-1986
FR 1259111	A	21-04-1961	NONE	
US 6427591	B1	06-08-2002	DE 19859437 A1	29-06-2000
			DE 59907008 D1	23-10-2003
			EP 1013418 A1	28-06-2000
			IL 133620 A	24-06-2003
			JP 2000185391 A	04-07-2000
US 5372644	A	13-12-1994	DE 4140790 A1	15-07-1993
			DE 4210529 A1	07-10-1993
			CA 2084814 A1	12-06-1993
			DE 9218955 U1	22-08-1996
			DE 59207809 D1	13-02-1997
			EP 0546454 A1	16-06-1993
			JP 6255087 A	13-09-1994
US 4516496	A	14-05-1985	AT 19997 T	15-06-1986
			AU 550695 B2	27-03-1986
			AU 1254983 A	13-10-1983
			CA 1200147 A1	04-02-1986
			DD 209596 A5	16-05-1984
			DE 3363712 D1	03-07-1986
			EP 0091709 A1	19-10-1983
			JP 1621024 C	09-10-1991
			JP 2042070 B	20-09-1990
			JP 58183257 A	26-10-1983
			SU 1194263 A3	23-11-1985
EP 0982131	A	01-03-2000	JP 2000127351 A	09-05-2000
			AT 242123 T	15-06-2003
			DE 69908514 D1	10-07-2003
			DE 69908514 T2	29-04-2004
			EP 0982131 A2	01-03-2000
			ES 2204063 T3	16-04-2004
			US 6202554 B1	20-03-2001

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2005/000027

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1088657	A	04-04-2001	JP 2001096722 A EP 1088657 A1	10-04-2001 04-04-2001
GB 987102	A	24-03-1965	NONE	